

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
29 September 2005 (29.09.2005)

PCT

(10) International Publication Number
WO 2005/090368 A1

(51) International Patent Classification⁷: **C07F 9/117**,
9/10, C07H 15/04, A61K 31/685, 31/7032, A61P 43/00,
C12N 5/08

(74) Agent: **BALDWINS**; BALDWINS CENTRE, LEVEL 14,
342 LAMBTON QUAY, WELLINGTON, 6001 (NZ).

(21) International Application Number:
PCT/NZ2005/000052

(22) International Filing Date: 22 March 2005 (22.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
531866 22 March 2004 (22.03.2004) NZ
537941 28 January 2005 (28.01.2005) NZ

(71) Applicant (for all designated States except US): **KIWI IN-
GENUITY LIMITED** [NZ/NZ]; Scott Laboratory Build-
ing, Auckland University of Technology, 19 Mount Street,
Auckland (NZ).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **BOVIN, Nicolai**
[RU/RU]; Artsimovicha str. 11-181, Moscow, 117437
(RU). **GILLIVER, Lissa** [NZ/NZ]; 47/21 Hunters Park
Drive, Auckland (NZ). **HENRY, Stephen** [NZ/NZ]; 18
Gracechurch Drive, Auckland (NZ). **KORCHAGINA,
Elena** [RU/RU]; Novocheremushkinkaya str. 21-1-26,
Moscow, 117218 (RU).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,
TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
ZM, ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,
SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: SYNTHETIC MEMBRANE ANCHORS

(57) Abstract: The invention relates to synthetic molecules that spontaneously and stably incorporate into lipid by-layers, including cell membranes. Particularly, although not exclusively, the invention relates to the use of these molecules as synthetic membrane anchors or synthetic molecule constructs to effect qualitative and quantitative changes in the expression of cell surface antigens.



WO 2005/090368 A1